CAMERON 10/717616 5/10/05 Page 1

## => FILE REG

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAY 2005 HIGHEST RN 850130-09-5 DICTIONARY FILE UPDATES: 9 MAY 2005 HIGHEST RN 850130-09-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

## => FILE HCAPLUS

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FILE COVERS 1907 - 10 May 2005 VOL 142 ISS 20 FILE LAST UPDATED: 9 May 2005 (20050509/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> D QUE
L10
          42096 SEA FILE=REGISTRY ABB=ON ((SI OR TI)(L)AL)/ELS(L)2-4/ELC.SUB
L11
               1 SEA FILE=REGISTRY ABB=ON SILICA/CN
L12
               1 SEA FILE=REGISTRY ABB=ON TITANIA/CN
L13
          117345 SEA FILE=HCAPLUS ABB=ON L10
L33
               1 SEA FILE=REGISTRY ABB=ON ALUMINUM/CN
L34
         357152 SEA FILE=HCAPLUS ABB=ON
                                          L33
                                           (AL OR ( L34 OR ALUMINUM/BI) ) (5A) SUBS
L35
          19633 SEA FILE=HCAPLUS ABB=ON
                 TRATE
                                           L13(L) (PEP OR FMU OR PREP)/RL
L36
          38157 SEA FILE=HCAPLUS ABB=ON
L40
             508 SEA FILE=HCAPLUS ABB=ON
                                           L35 AND L36
L41
              54 SEA FILE=HCAPLUS ABB=ON
                                           L40 AND INTERMETAL?
L43
               9 SEA FILE=HCAPLUS ABB=ON
                                           L41 AND (L11 OR L12 OR TIO2 OR SIO2
                 OR SILICA OR TITANIA OR (TITANIUM OR SILICON) (W) ?OXIDE)
L44
              26 SEA FILE=HCAPLUS ABB=ON' L41 AND (ENERGY OR HEAT? OR IR OR
                 INFRARED OR INFRA(W) RED OR LASER? OR (THERMAL OR PLASMA OR
                 FLAME) (W) SPRAY?)
L45
              11 SEA FILE=HCAPLUS ABB=ON
                                          L40 AND INTERMETAL? (3A)?LAYER?
L46
              37 SEA FILE=HCAPLUS ABB=ON
                                           (L43 OR L44 OR L45)
L47
           2746 SEA FILE=HCAPLUS ABB=ON
                                          L35 AND (L11 OR L12 OR TIO2 OR SIO2
                 OR SILICA OR TITANIA OR (TITANIUM OR SILICON) (W) ?OXIDE)
L48
               4 SEA FILE=HCAPLUS ABB=ON
                                          L47 AND INTERMETAL? (3A)?LAYER?
L49
               9 SEA FILE=HCAPLUS ABB=ON
                                          L47 AND INTERMETAL? (3A) (?LAYER? OR
                 PHASE? OR COATING?)
L50
               1 SEA FILE=REGISTRY ABB=ON ALUMINUM/CN
L51
         357152 SEA FILE=HCAPLUS ABB=ON
                                          L50
L52
         213279 SEA FILE=HCAPLUS ABB=ON
                                           (AL OR ( L51 OR ALUMINUM/BI) ) (5A) ALLO
                Y?
L53
           7692 SEA FILE=HCAPLUS ABB=ON L52 AND (L11 OR L12 OR TIO2 OR SIO2
                 OR SILICA OR TITANIA OR (TITANIUM OR SILICON) (W) ?OXIDE)
L54
             44 SEA FILE=HCAPLUS ABB=ON
                                          L53 AND INTERMETAL? (3A) (?LAYER? OR
                 PHASE? OR COATING?)
L55
             12 SEA FILE=HCAPLUS ABB=ON L54 AND (ENERGY OR HEAT? OR IR OR
                 INFRARED OR INFRA(W) RED OR LASER? OR (THERMAL OR PLASMA OR
                 FLAME OR ARC?) (W) SPRAY?)
L56
              52 SEA FILE=HCAPLUS ABB=ON L46 OR L48 OR L49 OR L55
    D L56 BIB ABS IND HITSTR 1-52
                     HCAPLUS COPYRIGHT 2005 ACS on STN
L56
     ANSWER 1 OF 52
AN
     2004:747412 HCAPLUS
DN
     142:264887
     Influence of intermetallic phases in the Al-Ti system on the
TI
     surface relief and sputtering of polycrystalline materials (Be, Al, Ti,
     Cu, Fe, W) under irradiation by ion beam with a wide energy
     spectrum
     Kalin, B. A.; Volkov, N. V.; Oleinikov, I. V.
ΑU
CS
     Mosk. Inzh.-Fiz. Inst. (Gos. ∦niv\), Moscow, Russia
SO
     Poverkhnost (2004), (5), 29-32
     CODEN: PFKMDJ; ISSN: 0207-3/528
PB
     Nauka
DT
     Journal
LA
     Russian
     The possibility to increase the resistance to phys. sputtering of constructional materials Be, Al, Ti, Fe, Cu, W by implantation of their
AB
     surface by Al and Ti/atoms and formation of intermetallic
     compds. on their basis is studied. The expts. on implantation of Al and
```

Ti atoms in polycryst. substrates have revealed their deep penetration (up to 100 nm) into substrates under simultaneous irradiation of film-substrate